BRUHATH BANGALORE MAHANAGARA PALIKE, DASARAHALLI ZONE
Office of the Executive Engineer, Dasarahalli Division
SCHEDULE-B

NAME OF THE WORK: Ward Development works in Ward no.14 Bagalagunte

Sl. No	Description of work	Unit	Qty	Rate Quoted by Sri.	
				In Figures (Rs.)	In Words (Rs.)
1	2	3	4	5	6
1	Earthwork excavation by manual means in Ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications with all leads and lifts etc., complete as per the direction of Engineer-in-charge of the work including Conveying Charges of Distance 5Km (2.5*1.28*5)+68=84.00	Cum	276.92	175.96	Rupees One Hundred Seventy Five and Ninety Six Paise Only
2	Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180 kgs, with 40 mm and down size graded granite metal coarse aggregates @ 0.85 cum and fine aggregates @ 0.57 cum machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation, including cost of all materials, labour HOM of machinery curing complete as per specifications.	Cum	43.72	5159.02	Rupees Five Thousand One Hundred Fifty Nine and Two Paise Only
3	Providing and Laying Plain/reinforced cement concrete for side drains using M20 nominal mix Concrete with OPC cement at 300kgs, with 20mm and down size granite metal coarse aggregaes at 0.69cum and fine aggregates at 0.43cum,machine mixed, well compacted for walls and bottom including centering, struttting, cost of materials, HOM of Machinery, curing etc., complete excluding cost of steel as per MORTH specifications. for Wall & bottom thickness 15cmDrain Concrete:	Cum	107.32	11032.48	Rupees Eleven Thousand Thirty Two and Forty Eight Paise Only
4	Supplying, fitting and placing TMT bar Fe 500 reinforcement in sub-structure complete as per drawing and Technical Specifications complete as per specificationsMORTH Specification No.1600 & 2200	Ton	6.14	74331.44	Rupees Seventy Four Thousand Three Hundred Thirty One and Forty Four Paise Only

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5	Providing and constructing precast concrete solid blocks with compressive strength not les than 35 Kg/sqm with cement mortar 1:4 masonry (quoin, Jamb, closer blocks) with solid concrete blocks of size 40x20x20 cms conforming to I.S: 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications.	Sqm	64.00	993.22	Rupees Nine Hundred Ninety Three and Twenty Two Paise Only
6	Providing and laying in position plain cement concrete of mix M1:2:4 with cement @240 kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.	Cum	1.68	5767.46	Rupees Five Thousand Seven Hundred Sixty Seven and Forty Six Paise Only
7	Supplying and fixing precast reinforced concrete slab 10 cm thick of mix M20 using 20mm and downsize graded granite metal using reinforcement 10mm dia steel at 150mmc/c bothways cost, transportation, hire charges of machinery, machine cutting the vertical face to get plain even surface etc., complete with all leads and lift conveyance charges, labour charges inclusive of cost of all materials - Data rate approved by Chief Engineer, Dasarahalli zone	Sqm	310.50	1680.00	Rupees One Thousand Six Hundred Eighty Only
8	Construction of dry lean cement Concrete mix CC1:5:10 with OPC cement @160kgs, with 25mm and down size graded grnite metal coarse aggragate at 0.86cum and fine aggregates @ 0.58cum sub-base over a prepared sub-grade with (Coarse and fine aggregate conforming to IS:383) aggregate cement ratio not to exceed 15:1 Aggregat gradiation after blending to be asper Table 600-1, cement content not to be less than 160kg/cum, optimum moisture content to be determined during trail length construction, concrete strength not to less than 10Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 tonnes vibratory roller, finishing and curing complete s per specifications	Cum	21.00	3986.66	Rupees Three Thousand Nine Hundred Eighty Six and Sixty Six Paise Only

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9	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 ReaffirmecF2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. M30 (at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.43cum)	Cum	65.62	6217.96	Rupees Six Thousand Two Hundred Seventeen and Ninety Six Paise Only
10	Vaccum de-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery,screed vibratory,power Floater,blade and disc etc., with all lead and lift	Sqm	382.50	95.40	Rupees Ninety Five and Forty Paise Only
11	Providing groove cutting to concrete pavement for width of 5mm to 10mm and depth 80mm - 100mm including cost of cutting machine, generator & HOM of machinery, including cost of blade, coolant, etc., including cleaning of grove & providing sand and hot bitumen fillars, and filler metal etc., including cost of conveyance of all amterials, labour, lead and lift charges and all other incidental charges as per drawing and as per specifications.	Rmt	63.00	121.90	Rupees One Hundred Twenty One and Ninety Paise Only
12	Excavation for roadwork in soil with hydraulic excavator of 0.90 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to embankment location and complete as per specifications. MORTH Specification No.301 (P.No.143, I.No.19.14 of PW,P&IWTD S.R 2016-17) including Conveying Charges of Distance 5Km	Cum	300.50	137.80	Rupees One Hundred Thirty Seven and Eighty Paise Only

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13	Scarifying bituminous course 50mm to 75 mm thick along with premix carpet/surface dressing by road roller attached with scarifier without disturbing the base & stacking the debris including cost of all labour charges complete as per specifications	Sqm	2430.00	30.74	Rupees Thirty and Seventy Four Paise Only
14	Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications	Sqm	3255.00	5.30	Rupees Five and Thirty Paise Only
15	For Grading I material construction of granular sub-base by providing coarse graded crushed stone aggregates of Granite/ trap/basalt material spreading in uniform layers with motir grader on prepared surface mixing by a mix in place method with rotawater at OMC, and Compacting with vibratory roller to achieve the desired density, complete as per specifications.by mix in a Place method for course Graded Granular Sub Base Material as per 400-2 for grading I material .	Cum	448.50	1518.98	Rupees One Thousand Five Hundred Eighteen and Ninety Eight Paise Only
16	Providing, laying, spreading and compacting stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density. Complete as per specifications.	Cum	501.50	1768.08	Rupees One Thousand Seven Hundred Sixty Eight and Eight Paise Only
17	Providing and applying primer coat with S.S bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of .60kg /sqm using mechanial means complete as per Specifications.	Sqm	2990.00	29.68	Rupees Twenty Nine and Sixty Eight Paise Only
18	Providing and applying tack coat on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications.	Sqm	7420.00	12.72	Rupees Twelve and Seventy Two Paise Only

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19	Providing and laying bituminous macadam on prepared surface with crushed coarse aggregates as per design mix formula for base / binding course including loading of aggregates with F.E. loader, hot mixing of stone aggregates and bitumen in hot mix plant 40 tonne capacity, transporting the mixed material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by power roller to achieve the desired density, 50/75mm compacted thickness with 3.3% bitumen but excluding the cost of primer/tack coat with lead incl. cost of all materials, labour, HOM of machineries complete as per specifications using 40/60TPH capacity H.M.P with Mechanical paver Gr II (50/75mm) with 3.4% VG-30 Bitumen as per the directions of Engineer-in-charge of the work	Cum	149.50	5669.94	Rupees Five Thousand Six Hundred Sixty Nine and Ninety Four Paise Only
20	Providing and laying bituminous concrete with hot mix plant using crushed aggregates of specified grading, pre mixed with bituminous binder and filler, transporting the hot mix to work site laying with paver finisher to the required grade, level and alignment . Rolling with smooth wheeled Vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause no 500.9 complete in all respects complete as per specifications. MORTH specification No509, using 40/60 TPH capacity H.M.P.with sensor paver Gr -II (30mm to 45mm) with 5.4% VG-30Bitumen	Cum	132.90	8013.60	Rupees Eight Thousand Thirteen and Sixty Paise Only
21	Road marking with hot applied thermoplastic compound with Reflectrising Glass beads on bituminous surface-Providing and laying of hot applied thermoplastic compound 2.5mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5mm is exclusive of surface applied glass beads aa per IRC : 35, the finished surface to be level uniform and free from streacks and holes complete as per specifications.	Sqm	67.50	542.72	Rupees Five Hundred Forty Two and Seventy Two Paise Only

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